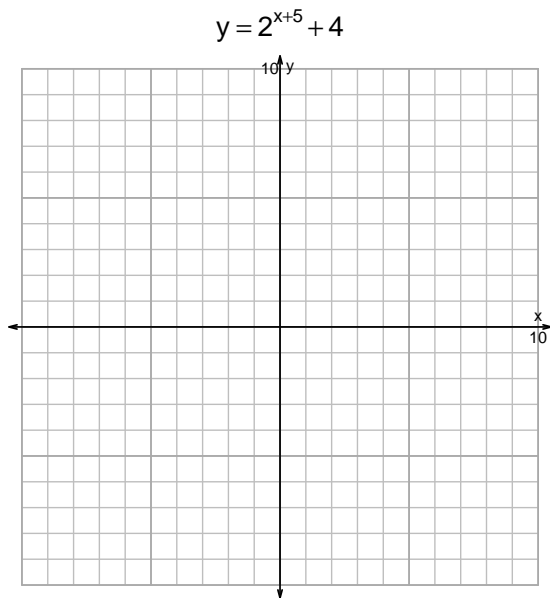
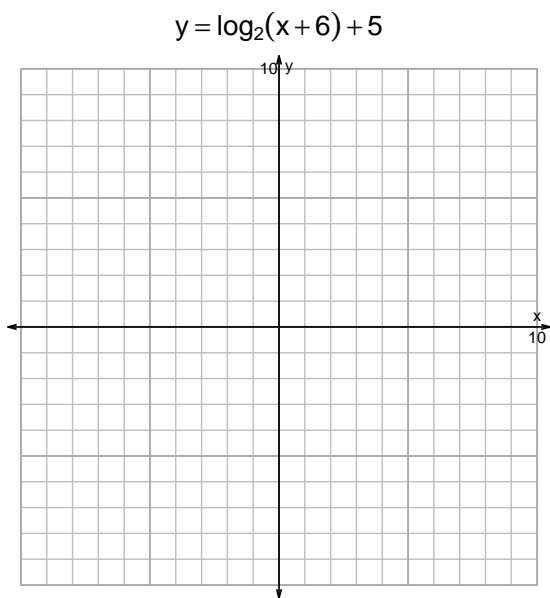


Name: _____

Date: _____

s18QUIZ: EXP LOG (PRACTICE v102)

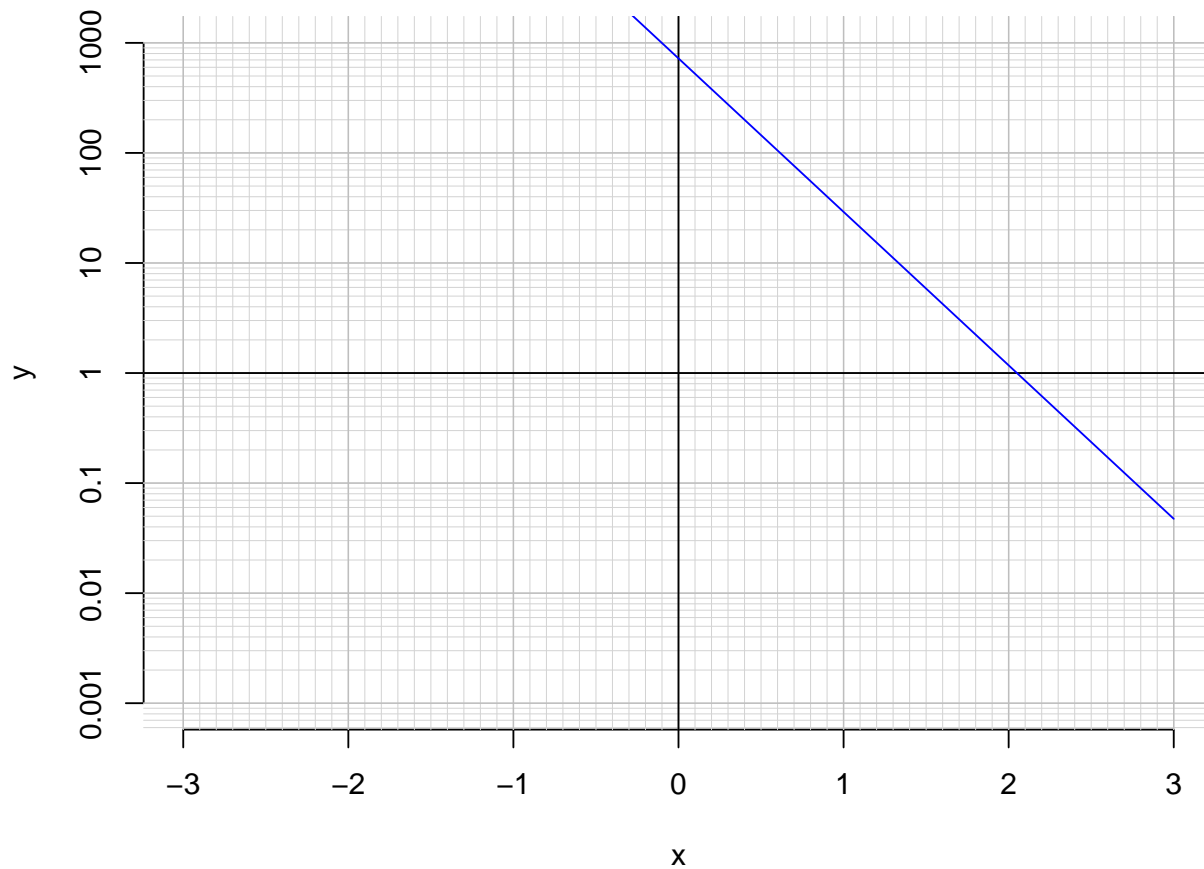
1. Graph $y = \log_2(x + 6) + 5$ and $y = 2^{x+5} + 4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-23 = \left(\frac{-5}{7}\right) \cdot 2^{3t/4}$$

3. An exponential function $f(x) = 722 \cdot e^{-3.21x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(0.4)$.

b. Express $f^{-1}(x)$, the inverse of f .

c. Using the plot above, evaluate $f^{-1}(0.09)$.